

REMARKS

This application, as amended, herein, contains Claims 1-14, 16-28 and newly added claims 29 and 30. Claim 15 has been cancelled.

Claims 1-6, 10-17, 23-24 and 27 were rejected under 35 U.S.C. 102(e) as being anticipated by Wong et al. Claims 7-8 were rejected under 35 U.S.C. 103(a) as being obvious over Wong et al. in view of Hallikainen et al. Claims 18-19 and 28 were rejected under 35 U.S.C. 103(a) as being obvious over Wong et al. in view of Malvino et al. Claims 20-21, 25 and 26 were rejected under 35 U.S.C. 103(a) as being obvious over Wong et al. in view of Malvino et al. further in view of Hallikainen et al. These rejections are respectfully traversed.

As specifically noted in Claim 1 and in claim 5, Applicants' invention is directed to an electronic device comprising a digital signal processor for processing audio signals, means for storing audio parameters controlling the processing of audio signals in the digital signal processor, and an auxiliary device connection for connecting an auxiliary device with the electronic device. In accordance with Applicants' invention, the electronic device includes means for loading the audio parameters into the means for storing the audio parameters from the auxiliary device.

Method Claim 1 has been amended to insert at the end, the words --said auxiliary device (11) conducting two way communication of data with said electronic device (1)--.

Apparatus claim 5 has been amended to contain a similar limitation, but in apparatus form. Wong et al. do not teach or suggest Claims 1 or 5.

Applicants' invention, as set forth in Claims 1 and 5, offers an auxiliary device for a mobile communication device with information and intelligence about the audio properties of this auxiliary device so that the audio paths of the mobile communication device would function as well as possible. The communication between the device (a mobile phone or a mobile phone card) and the auxiliary device (a PC, a headset, etc.) takes place using two way communication, such as by the handshake method (described in the specification), which utilizes the intelligence of the auxiliary device (microcontroller unit in the auxiliary device). Thus, the quantity or quality of the audio parameters is not limited, and since both of the primary device and the auxiliary device are intelligent, it is feasible that it is variable.

Wong et al. provide no such capability, being limited to the passive transfer of parameters from one device to another.

In view of the above, it is respectfully submitted that Claims 1 and 5 are not anticipated or rendered obvious by Wong et al. Allowance of claims 1 and 5 is respectfully requested.

Claims 14 and 18 have been amended herein to state that the writable mass storage is disposed within the electronic device (1). The parameters are downloaded from it when the

auxiliary device is connected. This has the advantage that the parameters of new auxiliary devices can be programmed in the mass storage, or the mass storage can be replaced by a new one. Both approaches have the advantage of offering convenience and maximum flexibility to the manufacturer and to the user.

This is in sharp contrast to Wong et al, where it is the memory of the auxiliary device that stores the audio parameters. In accordance with Applicants' invention, as set forth in Claims 14 and 18, it would at most be necessary to replace the writable mass storage, such as a removable memory chip or a card, in order to update the stored audio parameters so as to accommodate new devices. Wong et al. does not teach or suggest Applicants' invention as set forth in Claims 14 and 18. Accordingly, it is submitted that Claims 14 and 18 are directed to patentable subject matter.

Newly added claims 29 states that the method of claim 1 further comprises operating a microcontroller in the auxiliary device to conduct the two way communication. Newly added claim 30 states that the communication means communicates with a microcontroller in said auxiliary device. These claims serve to further distinguish Applicants' invention from Wong et al. For the reasons set forth above, it is submitted that claims 29 and 30 are also directed to patentable subject matter.

The remaining claims depend from one of the independent claims discussed above. These claims recite further limitations, which in combination with the limitations of

the claim from which they depend, are not shown or suggested in the art of record. For the reasons set forth above, it is respectfully submitted that these claims are also directed to patentable subject matter.

For all of the foregoing reasons, it is respectfully submitted that all of the claims now present in the application are clearly novel and patentable over the prior art of record. Accordingly, favorable reconsideration and allowance is respectfully requested. Should any unresolved issue remain, the Examiner is invited to call Applicants' Attorney at the telephone number indicated below.

Applicants petition for an extension of time in which to respond to the Office Action. A check for \$908 to cover the required fee, and for the presentation of one additional dependent claim is enclosed. If any additional fee is required, please charge deposit account no. 16-1350.

Respectfully Submitted,

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I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail on the date shown below in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231.

Shawna Murphy
Name of Person Making Deposit

6/21/01
Date

Serial No. 09/019,614

Appendix

Marked Up Claims

1. (Amended) A method for setting audio parameters controlling processing in a digital signal processor (4) in an electronic device (1) comprising at least one auxiliary device connection (10) for connecting at least one auxiliary device (11), wherein at least some of the audio parameters are loaded into the digital signal processor (4) during operation of the electronic device (1) from the auxiliary device (11), said auxiliary device (11) conducting two way communication of data with said electronic device (1).

5. (Amended) An electronic device (1) comprising:

a digital signal processor (4) for processing audio signals;

means (22) for storing audio parameters controlling the processing of audio signals in the digital signal processor (4), and

an auxiliary device connection (10) for connecting an auxiliary device (11) with the electronic device (1),

wherein the electronic device (1) further comprises [further] communication means for loading the audio parameters into the means (22) for storing the audio parameters from the auxiliary device (11), and for

conducting two way communication of data with the auxiliary device (11).

14. (Amended) A method for setting audio parameters in a digital signal processor (4) in an electronic device (1) comprising at least one auxiliary device connection (10) for connecting at least one auxiliary device (11), wherein at least some of the audio parameters are loaded into the digital signal processor (4) during operation of the electronic device (1) from a writeable mass storage (25) separate from said processor (4), said writable mass storage (25) being disposed within the electronic device (1).

18. (Amended) An electronic device (1) comprising:

a digital signal processor (4) for processing audio signals;

means (22) for storing audio parameters controlling the processing of audio signals in the digital signal processor (4), and

an auxiliary device connection (10) for connecting an auxiliary device (11) with the electronic device (1),

wherein the electronic device (1) comprises further means for loading the audio parameters into the means (22) for storing the audio parameters from a writeable mass storage (25) separate from said processor (4)), said writable mass storage (25) being disposed within the electronic device (1).